

AMENDMENTS TO THE CLAIMS:

1-26 (Canceled)

27. (Currently amended) A manual closed blood collection system comprising
a primary container sized and configured to hold a unit of whole blood drawn
from an individual donor for centrifugal separation,

a platelet unit container downstream of said primary container and sized and
configured to hold a platelet concentrate and a first volume of plasma centrifugally
separated from the unit of whole blood,

a plasma unit container sized and configured to hold a second volume of
plasma centrifugally separated from the unit of whole blood,

an auxiliary container downstream of said platelet container,

a synthetic platelet additive solution carried within the auxiliary container in an
at least an amount sufficient for mixing with the platelet concentrate and first volume
of plasma to achieve a predetermined ratio of additive solution and plasma and
provide a platelet concentrate mixture conditioned for a pathogen inactivation
treatment,

the synthetic platelet additive solution comprising an aqueous solution
comprising sodium chloride, sodium citrate, sodium acetate, and sodium phosphate
for conditioning the platelet concentrate mixture for pathogen inactivation in the
presence of a selected pathogen inactivating compound selected from a group
comprising psoralens, methylene blue, dimethyl-methylene blue, riboflavin, or PEN
110, or combinations thereof, tubing integrally coupling the primary container, the

platelet unit container, the plasma unit container, and the auxiliary container to form a sterile, closed blood processing system,

an in-line filter adapted to remove leukocytes from separated platelets ~~a blood component separated from whole blood carried by said tubing,~~

a filter by-pass branch extending around said filter; and

a one-way valve provided in said by-pass branch;

wherein said filter and one-way valve are located between said platelet container and said auxiliary container and allow for direct flow between said platelet and auxiliary containers.

28. (Original) A manual blood collection system according to claim 27

wherein, after processing in the sterile, closed blood processing system, the platelet concentrate mixture is held by the platelet unit container.

29. (Previously Presented) A manual blood collection system according to claim 28

wherein the platelet unit container comprises an appendage coupled to transfer tubing to transfer the platelet concentrate mixture from the platelet unit container to a selected destination.

30. (Original) A manual blood collection system according to claim 29

wherein the appendage couples to the transfer tubing to form an essentially sterile connection.

31-65 (Canceled)

66. (New) The manual closed blood collection system of claim 27 further comprising:

- a) a flow path having one end terminating in a donor needle and another end communicating with an inlet of said primary container;
- b) a flow path having one end communicating with an outlet of said primary container and another end communicating with a first connector;
- c) a flow path having one end communicating with said first connector and another end communicating with a second connector that is downstream of said first connector;
- d) a flow path having one end communicating with said second connector and another end communicating with a third connector that is downstream of said second connector;
- e) wherein said one-way valve and in-line filter are in flow communication with and located between said third connector and said auxiliary container.